7.0 Fire Risk and Behavior

BehavePlus is a Windows based application used to predict wildfire behavior for fire management purposes. Wildfire managers who are familiar with fuels, weather, topography, wildfire situations and the associated terminology are the primary users of this application. BehavePlus uses a minimum amount of site-specific input data to predict fire behavior for a single point in time and space.

Several model runs have been conducted using BehavePlus Version 1.1.0. These simulations were run with various site specific input variables for the Bear Lake – West assessment area. Variables included various combinations of 1-h moisture, 10-h moisture, 100-h moisture, Live fuel moisture, Dead fuel moisture, Midflame wind speeds, Wind direction, Slope steepness, and Aspect. The various fuel model runs include:
Fuel Model 1
Fuel Model 2
Fuel Model 3
Fuel Model 5
Fuel Model 6
Fuel Model 8
Fuel Model 9
Fuel Model 10

The output from these model runs is available in the project file at the BLM Idaho Falls Field Office.

8.0 Desired Condition

Based on the information gathered from during the interviews of community officials, discussions during the public meeting, review of the survey forms and mitigation proposed from the Bear Lake-West Assessment, it was determined that the communities within the Bear Lake County assessment area would like to see the following conditions occur:
➢ Improve County Fire Departments capability to suppress both wildland and structural fires by improving water supplies within subdivisions and improving the department's ability to move water from existing water sources. Add a fire engine and tender to the County's fire fighting equipment.
➢ Develop an active prevention program within the county that will inform the summer residents of the fire hazards and risks that exist in and adjacent to subdivisions.
➢ Develop an active fire prevention program within the county that will inform full time residents of the fire hazards and risks that exist in neighborhoods and outlying homes.
➢ Provide assistance to the Local Emergency Operations Group to facilitate development of a county-wide fire management plan